

Rabbit ATXN3 Polyclonal Antibody | anti-ATXN3 antibody

ATXN3 Antibody

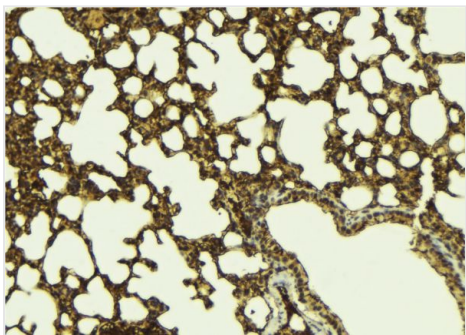
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326149	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

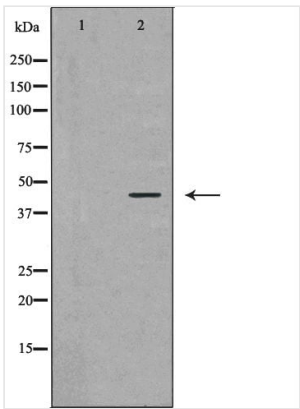
ATXN3; Polyclonal Antibody; ATXN3 Antibody; AT3; Ataxin 3; ataxin 3 variant h; ataxin 3 variant m; ataxin 3 variant ref; Ataxin-3; ATX3; ATX3_HUMAN; EC 3.4.22.; JOS; Josephin; Machado Joseph disease (spinocerebellar ataxia 3; olivopontocerebellar ataxia 3; autosomal dominant; ataxin 3); Machado Joseph disease; Machado Joseph disease protein 1; Machado-Joseph disease protein 1; Machado-Joseph disease protein 1 homolog; MJD; MJD gene; MJD1; Olivopontocerebellar ataxia 3; OTTHUMP00000221583; OTTHUMP00000221585; OTTHUMP00000221586; OTTHUMP00000221587; OTTHUMP00000231995; OTTHUMP00000231997; Rsca3; SCA3; SCA3 gene; Spinocerebellar ataxia type 3 protein; anti-ATXN3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ATXN3 antibody detects endogenous levels of total ATXN3
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	346
Applicable Applications for anti-ATXN3 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ATXN3
Subcellular Location	Nucleus Matrix. Predominantly nuclear, but not exclusively, inner nuclear matrix.
Tissue Specificity	Ubiquitous.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA326149 at 1/100 staining Mouse lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of MCF-7 lysate using ATXN3 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-ATXN3 antibody

Description: Machado-Joseph disease, also known as spinocerebellar ataxia-3, is an autosomal dominant neurologic disorder. The protein encoded by this gene contains (CAG)*n* repeats in the coding region, and the expansion of these repeats from the normal 13-36 to 68-79 is one cause of Machado-Joseph disease. There is a negative correlation between the age of onset and CAG repeat numbers. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Sep 2009]

Function: Deubiquitinating enzyme involved in protein homeostasis maintenance, transcription, cytoskeleton regulation, myogenesis and degradation of misfolded chaperone substrates (PubMed:12297501, PubMed:17696782, PubMed:23625928, PubMed:28445460, PubMed:16118278). Binds long polyubiquitin chains and trims them, while it has weak or no activity against chains of 4 or less ubiquitins (PubMed:17696782). Involved in degradation of misfolded chaperone substrates via its interaction with STUB1/CHIP: recruited to monoubiquitinated STUB1/CHIP, and restricts the length of ubiquitin chain attached to STUB1/CHIP substrates and preventing further chain extension (By similarity). Interacts with key regulators of transcription and represses transcription: acts as a histone-binding protein that regulates transcription (PubMed:12297501). Regulates autophagy via the deubiquitination of 'Lys-402' of BECN1 leading to the stabilization of BECN1 (PubMed:28445460).

Subunit Structure: Interacts with STUB1/CHIP (when monoubiquitinated) (By similarity). Interacts with DNA repair proteins RAD23A and RAD23B (PubMed:16020535). Interacts with BECN1 (via its poly-Gln domain) (PubMed:28445460).

Post-translational Modifications: Monoubiquitinated N-terminally by UBE2W, possibly leading to activate the deubiquitinating enzyme activity (PubMed:23696636).

Similarity: The UIM domains bind ubiquitin and interact with various E3 ubiquitin-protein ligase, such as STUB1/CHIP. They are essential to limit the length of ubiquitin chains (By similarity).The poly-Gln domain is involved in the interaction with BECN1 and subsequent starvation-induced autophagy (PubMed:28445460).

NCBI AND UNIPROT INFORMATION

NCBI GI #	189163493
NCBI GeneID	4287
NCBI Accession #	NP_001121168.1
NCBI GenBank Nucleotide #	NM_001127696.1
UniProt Accession #	P54252; O15284; O15285; O15286; Q8N189; Q96TC3; Q96TC4; Q9H3N0; A7LFZ5; D6RDL9; E9PB63
Molecular Weight	Observed: 43 kDa Predicted: 42 kDa
NCBI Official Full Name	ataxin-3 isoform ad
NCBI Official Synonym Full Names	ataxin 3

NCBI Official Symbol	ATXN3
NCBI Official Synonym Symbols	AT3; JOS; MJD; ATX3; MJD1; SCA3
NCBI Protein Information	ataxin-3
UniProt Protein Name	Ataxin-3
UniProt Gene Name	ATXN3
UniProt Synonym Gene Names	ATX3; MJD; MJD1; SCA3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/atxn3-antibody-immunohistochemistry-western-blot-elisa/326149>